



AMENDMENT TO THE CLAIMS

IN THE CLAIMS:

1. (Currently amended) A method of generating repetitive pulsed radiation with a multiplicity of additional discrete wavelengths, the method comprising:

positioning an optical processing medium in a resonant cavity with reflective elements;

and

generating repetitive pulsed radiation from a pulsed laser source in a pump cavity with reflective elements;

and

coupling the resonant and pump cavities;

and

seeding the optical processing medium with at least some of the discrete wavelengths, such that pulsed radiation with a multiplicity of additional discrete wavelengths is generated.

41. (Currently amended) The method of claim 1, wherein the seed wavelengths generate additional wavelengths of the multiplicity of of discrete wavelengths.

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47. (Currently amended) An apparatus for generating repetitive pulsed radiation with a multiplicity of additional discrete wavelengths,
the apparatus consisting of:
an optical processing element with reflective elements, said optical processing element operable in a multiple pass resonant manner;
and
seeding elements operable in the optically processing element to initiate generation of at least some of the discrete wavelengths;
and
an optically active element with reflective elements operable to generate repetitive pulsed pump radiation, said optically active element optically coupled to the optical processing element,
and
operable to transmit such repetitive pulsed pump radiation to the optical processing element, such that repetitive pulsed radiation with a multiplicity of additional discrete wavelengths is generated.